

# Work Order ID 117887

May-05-14 11:47:06 AM

\*117887\*

Page 1

Item ID: D2856-400 Accept **\*N9000040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Abrasion Strip 4" Wide (Per Foot) **216**  
 Start Date: 6/11/14 Start Qty: 108.00 **\*108\*** Cust Item ID:  
 Required Date: 6/11/14 Req'd Qty: 108.00 **\*108\*** Customer:  
 Reference:

Approvals: Process Plan: ML5 Date: 14-05-07 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_  
 Run Start **\*NR1\***  
 Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D2856	Rev A

100 PURCHASING 0.00  
**\*100\***  
 Purchasing Memo 0.00  
 Purchasing Issue P/O: 24149 Material: Outdoor grade polyurethane protective  
 clear tape 3M P/N 8681 (or 8681HS) - 108 foot roll Specify for Clear Tape  
OK 14/05/09 216

110 Receive & Inspect for Damage & Mat'l Certs 0.00  
**\*110\***  
 Packaging Memo 0.00  
 Packaging Ensure material certification is attached  
14/05/14 216

120 QC6- Inspect dimensions to drawing 0.00  
**\*120\***  
 QC Memo 0.00  
 Quality Control Ensure Material certification comply to Dwg D  
14/5/14 216

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other  _____ _____ _____
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Work Order ID 117887

May-05-14 11:47:06 AM

\*117887\*

Page 2

Item ID: D2856-400

Accept

\*N900040100\*

Setup Start

\*NS1\*

Revision ID:

Stop

\*NS2\*

Item Name: Abrasion Strip 4" Wide (Per Foot)

Start Date: 6/11/14

Start Qty: 108.00

\*108\*

Cust Item ID:

Required Date: 6/11/14

Req'd Qty: 108.00

\*108\*

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run

Start

\*NR1\*

Stop

\*NR2\*

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

130

Identify as per dwg & Stock Location: ST403 0.00

\*130\*

Packaging

Memo

0.00

Packaging

216

14-5-15

DAS  
26  
9-89

140

QC21- Final Inspection - Work Order Release

0.00

\*140\*

QC

Memo

0.00

Quality Control

14/5/20

YRK

14-5-16

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order update only ☐

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### FAULT CATEGORY

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# Picklist Print

May-05-14 11:47:06 AM

Page 1

Work Order ID: 117887

\*117887\*

Parent Item: D2856-400

\*D2856-400\*

Parent Item Name: Abrasion Strip 4" Wide (Per Foot)

Start Date: 6/11/14

Required Date: 6/11/14

Start Qty: 108.00

Required Qty: 108.00

Comments: IPP D02.08.28Re-format; Added clear & 108 foot roll to Step 2KJ/RF

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
3M8681-4		Purchased	No			110	f	0.0000	1	108			
*3M8681-4*									**				
Abrasion Strip 4"													

*Supply (216)*

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

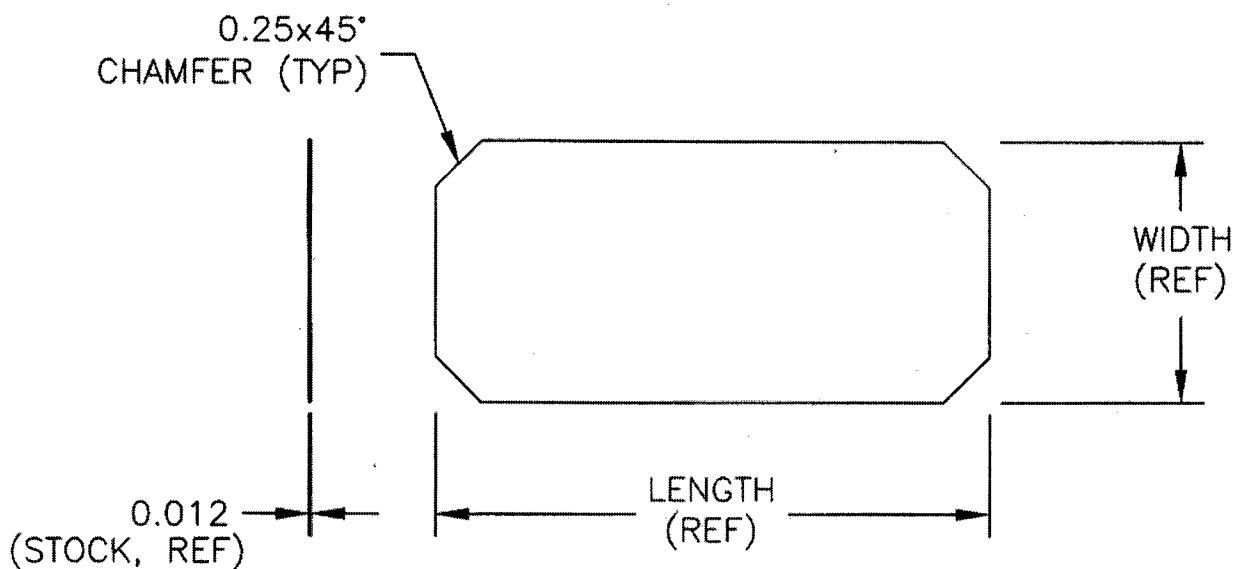
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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DESIGN <i>CP</i>	DRAWN BY <i>CP</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>A</i>	APPROVED <i>A</i>	DRAWING NO. D2856	REV. A SHEET 1 OF 1
DATE 00.11.17		TITLE ABRASION STRIP	SCALE NTS
A	00.11.17	NEW ISSUE	

RELEASED  
00.11.24

## SPECIFICATION CONTROL DRAWING



MATERIAL: OUTDOOR GRADE POLYURETHANE PROTECTIVE TAPE  
3M, P/N 8681 (OR 8681HS)  
THICKNESS: 0.012"

SPECIFICATION: D2856-XXX-YYY ABRASION STRIP

WIDTH

LENGTH

EG: 1.75"x2.50" ABRASION STRIP = D2856-175-250

11788  
DWT  
11788-11

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO24149

Purchase Order Date 5/9/2014

PO Print Date 5/9/2014

Page Number 1 of 2

**Order From :**

VU-AVI003

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

AVIALL

PO BOX 842275

DALLAS, TX 75284-2275

USA

FOXYED  
12/14/05/09

**Contact Name**

**Vendor Phone**

905-676-1695

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

USD

**FOB**

FCA - (Free Carrier)

**Ship To Contact**

**Ship To Phone**

**Ship Via:**

FedEx PI collect

**Ship Acct:**

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	MS28775-011	O-Ring	5/15/2014 Yes 5/15/2014		500.00 Each	\$0.27	\$135.00
AS PER DWG D2594 REV. C B117822							
Line Total:							\$135.00
2	3M8681-4	Abrasion Strip 4"	5/15/2014 Yes 5/15/2014		216.00 f	\$6.90	\$1,489.98
AS PER DWG D2856 REV. A B117887 OUTDOOR GADE POLYURETHANE PROTECTIVE CLEAR TAPE P/N: 8681HS 108 FOOT ROLL							
Line Total:							\$1,489.98

**PO Instructions:**

Note:

5/9/2014





**DELIVERY NUMBER:** 8000380547

**ROUTE:** US FedEx International Priority

**DATE:** 05/12/2014  
**TIME:** 21:30:05  
**EMP:** 00000000  
**ORD TYP:** ZOR 169  
**CURRENCY:** USD

**CUSTOMER PO:** 24149  
**ORDER NUMBER:** 1000285029  
**ORDER DATE:** 05/09/2014

**B** 10003952  
**I** DART AEROSPACE LTD  
**L** 1270 ABERDEEN STREET  
**L** HAWKESBURY ON K6A 1K7  
**T** CANADA  
**O**

**S** 10003952  
**H** DART AEROSPACE LTD  
**I** 1270 ABERDEEN STREET  
**P** HAWKESBURY ON K6A 1K7  
**T** CANADA  
**O**

**S** 1000  
**H** AVIALL CENTRAL WAREHOUSE  
**I** DALLAS CDC  
**P** 2750 REGENT BLVD  
**F** DFW AIRPORT TX 75261-9048  
**R** USA  
**O**

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	QUANTITY BACK ORDER	UOM	LIST PRICE	CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
00010	10	15	MS28775-011 ORING: NITRILE, 70	500	500	0	EA	53.30	0.27	135.00
			BATCH 7363666801 Exp Date: 12/27/2028		500					
00020	20	27	021200-24987 TAPE: PPT, CLR, 4INX36YD	2	2	0	EA	931.24	744.99	1,489.98
			BATCH 7363633089 Exp Date: 07/06/2015		2					
00030	30	33	424 TAPE: SEALANT, POLYSULFIDE, BLK	61	61	0	ROL	297.73	223.30	13,621.15
			BATCH 7363635791 Exp Date: 01/27/2015		61					

**This is not an Invoice.**  
**For payment processing, please refer to Invoice.**

**The recipient of these goods agrees to comply with all export regulations governing the transfer, sale, lease, or use of these goods.**  
**Diversion contrary to U.S. Law is prohibited.**

**CERTIFICATE OF CONFORMANCE**

It is hereby certified that Aviall Services, Inc., is an approved distributor and meets all requirements of ISO9001, AS9100, AS9120 and AC 00-56 at 2750 Regent Blvd. DFW Airport, Texas. The products, articles or parts referenced on this document are in new or overhauled condition and were purchased from an approved source (FAA, EASA, TCCA, Mil Spec or Commercial). The Original Manufacturers' Certifications are maintained on file at our central office location, and copies are available upon request or at Aviall.com. For overhauled or repaired products, articles or parts, the original FAA 8130-3 / EASA Form 1 (Return to Service) or Yellow Tag, from the FAA/JAA/EASA approved Air Agency are attached to the component.

*Signature*

JR Hofmann, Director, Global Quality

05/12/2014  
Date

**DISCOUNT TERMS APPLY ONLY TO SUB TOTAL. ALL RETURNED MERCHANDISE SUBJECT TO HANDLING FEE.**  
THIS IS TO CERTIFY THAT AVIALL HAS COMPLIED WITH THE PROVISIONS OF THE FAIR LABOR ACT OF 1938 AMENDED.

**CUSTOMER COPY**

# GS# 424

## Material Safety Data Sheet



### Section 1

#### Product and Company Identification

Product Name:	GS# 424 (MIL-S-11030F Type III)
Product Description:	Extruded Tape Sealant
Manufacturer:	General Sealants, Inc. 300 S. Turnbull Canyon Road, City of Industry, CA 91745
Information Phone:	626-961-0211 FAX 626-968-5140
Web Site:	www.generalsealants.com
Emergency Phone:	626-961-0211 or 800-762-1144
Issue Date:	5/24/2013

### Section 2

#### Composition/Information on Ingredients

No reportable hazardous substances or complex substances.

### Section 3

#### Hazards Identification

This material is not considered to be hazardous according to regulatory guidelines (see Section 15).

### Section 4

#### First Aid Measures

Eye Contact:	Flush with warm water for 15 minutes. If irritation persists, seek medical attention.
Skin Contact:	Wash contaminated area with soap and water for 15 minutes. If irritation persists, seek medical attention.
Ingestion:	Do not induce vomiting. Seek medical attention.
Inhalation:	Remove to fresh air. Seek medical attention.

# GS# 424

## Material Safety Data Sheet



### Section 5

#### Fire Fighting Measures

Flash Point:	N/A
Auto Ignition Point:	N/A
Lower Explosive Limit:	N/A
Upper Explosive Limit:	N/A
Extinguishing Media:	Use water spray (fog), foam, dry chemical or carbon dioxide (CO2).
Fire Fighting Instructions:	Use water spray to cool fire exposed surfaces. Use standard protective equipment and in enclosed spaces a self contained breathing apparatus.
Fire And Explosion Hazards:	Irritating gases may be present.

### Section 6

#### Accidental Release Measures

Avoid release to the environment. Contain spill, collect, and transfer to suitable containers. Do not flush to sewer or allow to enter waterways. Recycle or dispose in accordance with federal, state, and local regulations.

### Section 7

#### Handling and Storage

Handling and Storage Precautions:	Store in closed containers at 72° F. Avoid excessive heat. For industrial use only
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### Section 8

#### Exposure Controls/Personal Protection

Engineering Controls:	Use with adequate general ventilation.
Eye/face Protection:	N/A
Skin Protection:	Use gloves when material is hot.
Respiratory Protection:	N/A
Other/ General Protection:	Wash thoroughly after handling.

N/A= Not Applicable

**GS# 424****Material Safety Data Sheet****Section 9**

Physical and Chemical Properties

<b>Appearance:</b>	Black
<b>Odor:</b>	Slight Polysulfide Odor
<b>Chemical Type:</b>	Mixture
<b>Physical State:</b>	Solid
<b>Melting Point:</b>	N/A
<b>Boiling Point:</b>	N/A
<b>Specific Gravity (Water=1):</b>	1.5
<b>Vapor Pressure:</b>	N/A
<b>Vapor Density (Air=1):</b>	N/A
<b>Solubility in Water:</b>	Insoluble
<b>Evaporation Rate (n-butyl Acetate=1):</b>	N/A

**Section 10**

Stability and Reactivity

<b>Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Incompatible Materials:</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may form carbon dioxide, carbon monoxide and various hydrocarbon fumes.
<b>Condition to avoid:</b>	None known

**Section 11**

Toxicological Information

No data available

N/A= Not Applicable

# GS# 424

## Material Safety Data Sheet



### Section 12

#### Ecological Information

No data available

### Section 13

#### Disposal Consideration

Dispose in accordance with applicable federal, state and local government regulations.

### Section 14

#### Transportation Information

**Proper Shipping Name**  
Not regulated by the USDOT

### Section 15

#### Regulatory Information

When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

### Section 16

#### Other Information

**NFPA Rating:** Health:0 Flammability:0 Reactivity:0

**HMIS Rating:** Health:0 Flammability:0 Reactivity:0

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